



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

March 6, 2008

Mr. Jerry Mears  
Buncombe County  
81 Panther Branch Road  
Alexander, NC 28701

Re: *Leachate Spill Assessment*  
Buncombe County Subtitle D Landfill, Permit #11-07

Dear Mr. Mears:

The Solid Waste Section has reviewed the *Leachate Spill Assessment* submitted on November 13, 2007 on behalf of Buncombe County by CDM for the Buncombe County Subtitle D Landfill located in Alexander. The *Leachate Spill Assessment* was submitted pursuant to a Compliance Order issued by the Division of Waste Management, Solid Waste Section to Buncombe County on September 7, 2007.

The *Leachate Spill Assessment* included soil, sediment, groundwater, and surface water sampling results. The samples were collected on September 27, 2007, September 28, 2007, and October 1, 2007 as part of the Fall 2007 semiannual sampling event. Acetone was detected in two soil samples collected in samples S-1 (175 ug/kg) and S-3 (96.3 ug/kg), but the results were below the Health Based Soil Remediation Goals referenced from the US EPA Region IX 2004 Preliminary Remediation Goal Table. Chromium and lead were detected in the groundwater samples in concentrations above their North Carolina 2L standards in monitoring well MW-2. Chromium exceeded its 2L groundwater standard during the September 2007 special sampling event (59.1 ug/L) and was detected below its 2L groundwater standard during the March 27, 2007 semiannual event. Lead exceeded its 2L groundwater standard during the September 2007 special sampling event (27.8 ug/L) and was detected below its 2L groundwater standard during the March 27, 2007 semiannual event.

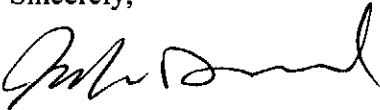
Vinyl chloride was detected in concentrations above its 2L standard in the cell 3 leak detection sample LD-3 during the September 2007 special sampling event (5.8 ug/L) and was detected below its 2L groundwater standard during the March 23, 2007 semiannual event. No VOCs or metals were detected above their North Carolina 2B surface water standards in surface water sample SW-1.

As a result, there appears to be no residual contamination within the soils, sediment, and surface water from the leachate outbreak that occurred at the landfill. However, chromium and lead were detected in concentrations above their 2L groundwater standards in MW-2 during this sampling event. Please resample groundwater from MW-2 within 30 days of receipt of this letter to verify the results of the Fall 2007 sampling event. If chromium and lead are still detected above their 2L groundwater standards, then pursuant to Solid Waste Management Rules 15A NCAC 13B .1634, please initiate assessment monitoring within 90 days unless a demonstration can be made that the constituents are from a source other than the landfill [Rule .1633 (c)(3)].

Please also contact Larry Frost, Asheville Regional Permitting Engineer, regarding the cell leak detection samples. Mr. Frost will provide information as to what is required for the next step in determining the reason for the apparent presence of leachate between the liners (i.e. leak detection zone) at the landfill.

Please call me at 919-508-8500 if you have any questions or concerns regarding this correspondence.

Sincerely,



Jaclynne Drummond  
Hydrogeologist  
Environmental Compliance  
Solid Waste Section

cc: Matt Colone, CDM  
Mark Poindexter, Field Operations Branch Supervisor  
Deb Aja, Western Regional Supervisor  
Teresa Bradford, Waste Management Specialist  
Ed Mussler, Permitting Branch Supervisor  
Larry Frost, Asheville Regional Permitting Engineer  
Amy Kadrie, Compliance Officer  
Solid Waste Section Central Files